

# William A. Holtz, Ph.D.

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## THOMPSON COBURN LLP

Dr. William Holtz practices in the firm's intellectual property practice area.

### Distinction

Dr. Holtz earned both his J.D. and Ph.D. from Washington University in St. Louis. As a doctoral candidate, he studied molecular mechanisms of cell death in a model of Parkinson's disease. Additionally, Dr. Holtz has research experience working for a major biotechnology company. Dr. Holtz has published in peer reviewed scientific journals such as *Journal of Biological Chemistry*, *Journal of Neurochemistry*, *Neurobiology of Disease*, and *Antioxidants & Redox Signaling*. He uses his extensive experience in molecular cloning, DNA and RNA purification, cell culture, immunohistochemistry, protein expression, protein purification, quantitative PCR, gene array analysis, and microscopy in assisting in the preparation and prosecution of biotechnology and pharmaceutical patent applications.

### Publications

- "Oxidative Stress-Triggered Unfolded Protein Response is Upstream of Intrinsic Cell Death Evoked by Parkinsonian Mimetics", Holtz WA, Turetzky JM, Jong YJ, O'Malley KL *J Neurochem.*; 99(1):54-69 (2006 Oct)
- "Microarray Expression Profiling Identifies Early Signaling Transcripts Associated with 6-OHDA-Induced Dopaminergic Cell Death", Holtz WA, Turetzky JM, O'Malley KL *Antioxid Redox Signal.*; 7(5-6):639-48 (2005 May-Jun)
- "Parkinsonian Mimetics Induce Aspects of Unfolded Protein Response in Death of Dopaminergic Neurons", Holtz WA, O'Malley KL *J Biol Chem.* 2003 May 23;278(21):19367-77 (Epub 2003 Feb 21)
- "Role of Oxidative Stress and the Unfolded Protein Response in 6-OHDA-Mediated Dopaminergic Cell Death", Program No. 451.4, Holtz WA, O'Malley KL 2003 *Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. Online* (2003)

### Professional Affiliations

- Bar Association of Metropolitan St. Louis



### Education

- **Washington University in St. Louis**  
J.D. (2007)  
Ph.D., Molecular Cell Biology (2004)
- **University of Missouri-Columbia**  
B.S., Biochemistry (1997)

### Employment

- **Thompson Coburn LLP**  
Associate (2007-Present)  
Summer Associate (2006)
- **Monsanto Company**  
Summer Legal Intern (2005)  
Research Scientist (1997-1998)

### Licensure

- Missouri
- Illinois
- U.S. Patent and Trademark Office